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1. Purpose:

To provide a listing of PDP identified required compounds for finished drinking water.

2. Scope:

This standard operating procedure (SOP) shall be followed by the New York Department of Agriculture and Markets laboratory analyzing finished drinking water samples for PDP.

3. Outline of Procedure:

- 5.1 Compounds Required for New York Finished Drinking Water Multiresidue Screen
- 5.2 Marker Pesticides for New York Finished Drinking Water Multiresidue Screen

4. References:

- New York Department of Agriculture and Markets Comparison Between Extracting Filtered vs. Unfiltered Water for Three Methods, December 18, 2001
- New York Department of Agriculture and Markets Finished Drinking Water LC Methods (Two) Validation, July 10, 2001
- New York Department of Agriculture and Markets Finished Drinking Water GC Method Validation, June 6, 2001
- USDA/AMS-EPA Planning Meeting, March 14, 2001
- USDA/AMS PDP Quality Assurance (QA)/Technical Meeting, February 21-22, 2001
- PDP Program Plan January June 2001
- Memo from Cathy Eiden, EPA/OPP/HED, to Tom Gilding, ACPA, Follow-up to October 28, 1998, Work Group Meeting
- PDP/Drinking Water Monitoring Work Group Meeting, October 28, 1998
- PDP/Drinking Water Monitoring Work Group Meeting, September 8, 1998
- USGS NAWQA Program Constituents (Occurrence Based)
- US EPA OGWDW/OW, Regulated Contaminants

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- US EPA OGWDW/OW, Pesticides Considered Occurrence Priorities under the Candidate Contaminant List (CCL)
- US EPA OGWDW/OW, Pesticides under Unregulated Contaminants Monitoring
- US EPA OPP Potential PDP List, Scheduled REDs

5. **Specific Procedures:**

This standard operating procedure (SOP) represents minimum PDP requirements and is presented as a general guideline. Each laboratory shall have written procedures that provide specific details concerning how the procedure has been implemented in that laboratory.

5.1 Compounds Required for New York Finished Drinking Water Multi Residue Screen

Finished Drinking Water Compound	Pest Code
2,4,5-T	312
2,4-D	026
3-hydroxycarbofuran	512
Acetochlor	807
Acetochlor ethanesulfonic acid (ESA)	ABN
Acetochlor oxanilic acid (OA)	ABO
Alachlor	227
Alachlor ethanesulfonic acid (ESA)	ABP
Alachlor oxanilic acid (OA)	ABQ
Atrazine	305
Azinphos methyl	042
Bendiocarb	658
Benomyl	192
Bensulfuron methyl	ABR
Bentazon	758
Bromacil	153
Bromoxynil	729

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Finished Drinking Water Compound	Pest Code
Butachlor	806
Carbaryl	102
Carbofuran	180
Carbophenothion	202
Chloramben	952
Chlordane trans	172
Chlorfenvinphos beta	617
Chlorpyrifos	160
Chlorpyrifos methyl	235
Clopyralid	B46
Coumaphos	124
Cyanazine	228
Cycloate	232
DCPA (dacthal)	134
DCPA monoacid	ABV
DDD o,p'	909
DDD p,p'	908
DDE p,p'	910
DDT o,p'	907
DDT p,p'	906
DEF (tribufos)	217
Desethyl atrazine	964
Desisopropyl atrazine	785
Diazinon	024
Diazinon O-analog	395
Dichlobenil	324
Dichlorprop	A25
Dicloran	144
Dicofol p,p'	254
Dieldrin	028
Dimethoate	171
Dinoseb	031

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Finished Drinking Water Compound	Pest Code
Diphenamid	330
Disulfoton	117
Disulfoton sulfone	216
Diuron	032
Endosulfan I	900
Endosulfan II	901
Endosulfan sulfate	902
Endrin	034
Ethalfluralin	721
Ethion	107
Ethion mono oxon	AAX
Ethoprop	175
Fenamiphos	236
Fenarimol	271
Fenitrothion	391
Fenthion	177
Fenthion O-analog	691
Fenuron	840
Fludioxonil	B23
Flumetsulam	AAU
Fluometuron	ABX
Fonofos	163
Fonofos O-analog	692
Heptachlor epoxide	143
Imazamethabenz methyl	753
Imazamox	ACA
Imazapic	ACZ
Imazapyr	ACB
Imazaquin	ACC
Imazethapyr	ACD
Imidacloprid	967
Iprodione	626

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Finished Drinking Water Compound	Pest Code
Isofenphos	258
Isoxaflutole	B15
Lindane	050
Linuron	129
Malathion	052
MCPA	318
MCPB	620
Metalaxyl	607
Methidathion	197
Methidathion O-analog	ACE
Methiocarb	195
Methomyl	159
Methoxychlor (total)	055
Methoxychlor olefin	276
Metolachlor	283
Metolachlor ethanesulfonic acid (ESA)	ACG
Metolachlor oxanilic acid (OA)	ACH
Metribuzin	181
Metsulfuron methyl	ACI
Mevinphos E	579
Molinate	778
Monuron	046
Myclobutanil	679
Napropamide	594
Neburon	061
Nicosulfuron	ACM
Norflurazon	596
Norflurazon desmethyl	720
Oxadiazon	625
Oxadixyl	A46
Oxamyl	537
Oxychlordane	349

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Finished Drinking Water Compound	Pest Code
Oxyfluorfen	713
Parathion ethyl	065
Parathion methyl	057
Parathion methyl O-analog	779
Pendimethalin	230
Phenthoate	377
Phorate	148
Phorate O-analog	928
Phorate sulfone	189
Phorate sulfoxide	190
Phosalone	166
Phosphamidon	203
Picloram	329
Piperonyl butoxide	070
Pirimicarb	580
Pirimiphos methyl	562
Profenofos	224
Prometon	942
Pronamide	540
Propachlor	675
Propanil	341
Propargite	623
Propetamphos	636
Propham	310
Propiconazole	264
Quintozene (PCNB)	304
Siduron	ACT
Simazine	149
Sulfotep	311
Sulprofos	609
Tebuconazole	A58
Tebupirimphos	A59

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Finished Drinking Water Compound	Pest Code
Tebupirimphos O-analog	ACR
Tebuthiuron	780
Terbacil	152
Terbufos O-analog	A60
Terbufos sulfone	963
Tetrachlorvinphos	176
Tetradifon	108
Thiobencarb	726
Triadimefon	608
Triallate	621
Triclopyr	731

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5.2 Marker Pesticides for New York Finished Drinking Water Multiresidue Screening

All reported compounds shall be spiked on a rotating basis so that each extraction/detection system is adequately represented within a given data set.

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3/21/03

Date

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- Removed cis chlordane and propoxur (process control)
- Added 2,4-D, acetochlor ethanesulfonic acid (ESA), alachlor ethanesulfonic acid (ESA), benomyl, bensulfuron methyl, bentazon, bromacil, chloramben, cycloate, DCPA monoacid, dichlorprop, dinoseb, diuron, fenuron, flumetsulam, fluometuron, imazamethabenz methyl, imazamox, imazapic, imazaquin, imazethapyr, imidacloprid, isoxaflutole, MCPB, methiocarb, methomyl, metolachlor ethanesulfonic acid (ESA), metsulfuron methyl, monuron, neburon, nicosulfuron, oxamyl, and siduron
- Updated clopyralid code to B46
- Removed process control subsection 5.3 (refer to SOP PDP-QC-13 for process controls)